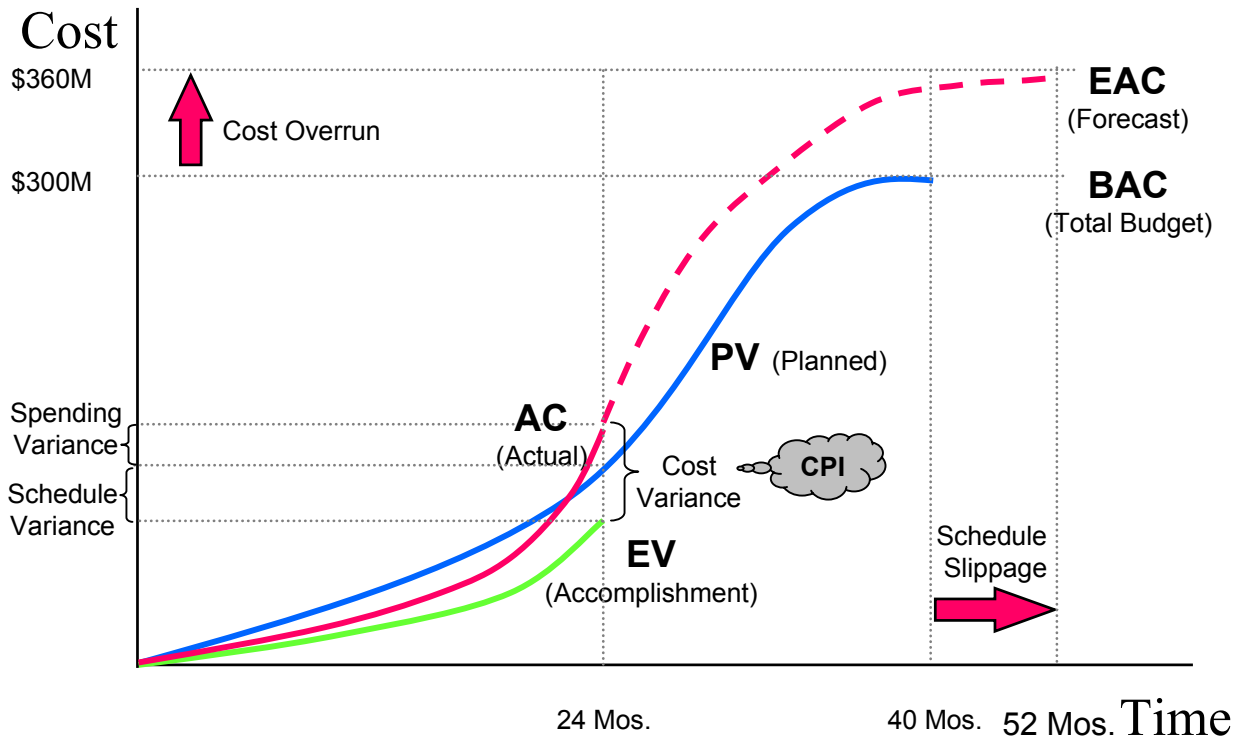


EVMS Desktop Reference



PV	PLANNED VALUE
EV	EARNED VALUE
AC	ACTUAL COST
BAC	BUDGET AT COMPLETION
EAC	ESTIMATE AT COMPLETION
ETC	ESTIMATE TO COMPLETE
CV	COST VARIANCE
SV	SCHEDULE VARIANCE
CPI	COST PERFORMANCE INDEX
SPI	SCHEDULE PERFORMANCE INDEX

Variances

$$\text{Schedule Variance (SV)} = \text{EV} - \text{PV}$$

$$\text{Cost Variance (CV)} = \text{EV} - \text{AC}$$

$$\text{Cost Variance (\%)} = \frac{\text{CV}}{\text{EV}} \times 100$$

$$\text{Schedule Variance (\%)} = \frac{\text{SV}}{\text{PV}} \times 100$$

$$\text{Variance at Completion} = \text{BAC} - \text{EAC}$$

Performance Indices

$$\text{Schedule Performance Index (SPI)} = \text{EV} / \text{PV}$$

$$\text{Cost Performance Index (CPI)} = \text{EV} / \text{AC}$$

Others

$$\text{Estimate at Completion (EAC)} = \frac{\text{BAC}}{\text{CPI}}$$

$$\text{Estimate at Completion} = \text{AC} + \text{ETC}$$

PV, EV and AC COMPARISONS

Planned Value (PV)	Earned Value (EV)	Actual Cost (AC)	Calculation	Conditions
\$100	\$100	\$100	CV = 0 SV = 0	On Cost On Schedule
\$200	\$200	\$100	CV = 100 SV = 0	Underrun Cost On Schedule
\$100	\$100	\$200	CV = -100 SV = 0	Overrun Cost On schedule
\$100	\$200	\$200	CV = 0 SV = 100	On Cost Ahead of Schedule
\$100	\$200	\$100	CV = 100 SV = 100	Underrun Cost Ahead of Schedule
\$100	\$200	\$300	CV = -100 SV = 100	Overrun Cost Ahead of Schedule
\$200	\$100	\$100	CV = 0 SV = -100	On Cost Behind Schedule
\$300	\$200	\$100	CV = 100 SV = -100	Underrun Cost Behind Schedule
\$200	\$100	\$300	CV = -200 SV = -100	Overrun Cost Behind Schedule